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2N1600 SILICON PNPN CONTROLLED RECTIFIER

maximum ratings — all temperatures indicated are stud temperatures

VF(off) VR IF IF If If If	Forward Voltage in the "off" Condition at 125°C (Note 1) Peak Inverse Voltage — 65°C to + 150°C Average Rectified Forward Current at 80°C Average Rectified Forward Current at 125°C Recurrent Peak Forward Current at 125°C Recurrent Peak Forward Current at 125°C Surge Current, 1 Cycle at 60 cps at 80°C Forward Gate Current at 125°C Gate Peak Inverse Voltage — 65°C to + 150°C	2N1600 50 50 3 1 10 3 25 100 5	unit volts volts A A A A
V _{GR} T _s T _{s1g} T _i	Gate Peak Inverse Voltage — 65°C to + 150°C Operating Temperature Range Storage Temperature Range	5	volts °C °C
ני	Junction Temperature Altitude at Maximum Ratings Stud Torque		°C ft.

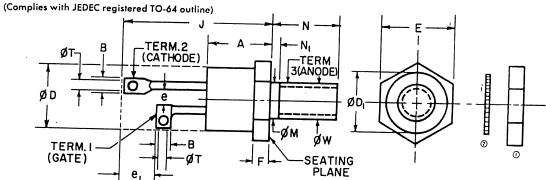
specifications — all temperatures indicated are stud temperatures

D14	411 -	2N1600	Unit
BV _F	Min Forward Breakover Voltage at 125°C (Note 1)	60	volts
BV _R	Min Reverse Breakdown Voltage at 25°C (Note 2)	60	volts
I _R	Max dc Reverse Current at Rated V _k at 25°C	0.25	ma
l _R	Max dc Reverse Current at Rated V _R at 125° C	1	ma
F(off)	Max dc Forward Current at V _{FIeIII} at 25°C	0.25	ma
Floff	Max dc Forward Current at V _{Flotts} at 125°C	1	ma
VF	Max Forward Voltage Drop at I = 3Adc at 25°C	ż	volts
lgt	Max Gate Current to Trigger at 25°C (Note 3)	10	ma
V_{GT}	Min Gate Voltage to Trigger at 125°C (Note 3)	0.25	volts
l _H	Max Holding Current at 25°C	25	ma
BV_G	Min Gate Breakdown Voltage at 25°C (Note 2)	6	volts
٧s	Max Fwd. Gate Voltage Drop at In = 25 mg at 25°C	š	valte

NOTES:

- Measured with a 1000 ohm external shunt-resistance between the gate and cathode.
 Breakdown voltage is the voltage at which the current is

OUTLINE DRAWING



() 10-32 STEEL NUT CADMIUM PLATED ② LOCKWASHER, CADMIUM PLATED STEEL

۱.,	Contour and orientation of fixed terminal lugs
	are optional.
(2)	The outline contour (with exception of hexagon)
,-,	is entired within exception of nexagon)
	is optional within zone defined by oD and J.
(3)	Minimum diameter of seating plane
(4)	A chamfer (or undercut) on one or both ends
٠.,	the succession of the or both ends
	of hexagonal portion is optional.
(5)	Minimum difference in terminal lengths to
	establish datum line for numbering terminals.
/£\	nitch die mit inte for nombering terminals.
(0)	Pitch diameter-thread 10-32 NF-2A (Coated).
	Reference (Screw Thread Standards for Federal
	Services 1957) Handbook 1957 H28.
171	751-1-1-1-1 1337) Handudon 1937 HZ8.
1//	Minimum spacing between terminals.
(8)	Insulating kit available upon request.

SYMBOL	MIN.	MAX.	MIN.	MAX.	
A	.300	.400	7.62	10.16	
8	.080	.136	2.03	3.45	1
φD		.424		10.77	2
φD ₁	.400		10.16		3, 4
E	.424	.437	10.77	11.10	
e	.013		.330		7
e,	.060		1.52		5
F	.060	.175	1.52	4.45	4
1	.700	.855	17.78	21.72	2
φM	.163	.189	4.14	1.80	
N	.400	.453	10.16	11.51	
N,		.078		1.98	
41	040	.075	1.02	1.91	
φW	.1658	.1697	4,212	4.310	6

INCHES MILLIMETERS.



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